



**SOUTH DAKOTA
STATE UNIVERSITY**
College of Agriculture, Food
and Environmental Sciences

South Dakota State University Extension
South Dakota Agricultural Experiment Station at SDSU

2022 South Dakota Corn Hybrid Trial Results Mt. Vernon

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Location: 6 miles north and 3 miles east of Mt. Vernon in Davison County, SD.
43.785869°, -98.205029°

Cooperator: Edinger Bros.

Soil Type: Houdek-Prosper loams, 0-2% slopes

Fertilizer: 100 lb/acre 30-10-10 starter + 110-22-0-15S as NH3 & TAPPS fall-applied

Previous crop: soybeans

Tillage: no-till

Row spacing: 30 inches

Seeding Rate: 32,000/acre

Herbicide: Burndown: 24 oz/acre Roundup Original RT
Post: 8 oz/acre Dicamba HD + 3 oz/acre Meso 4 SC + 33 oz/acre Roundup
PowerMax

Date seeded: 5/11/22

Date harvested: 10/19/22



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Table 1a. Glyphosate-resistant corn hybrid performance results (average of 4 replications - **Early Season Trial** (102 day maturity or less) at Mt. Vernon, SD.

Hybrid Information		Agronomic Performance					
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture	Test Wt. (lbs/bu)	Lodging (%)	Final Stand (plants/A)
Dairyland Seed	DS-4219AM	102	152.1	12.2	56.0	0.0	29400
Hoegemeyer	7138 AM	101	142.6	12.6	56.1	0.0	31300
Dairyland Seed	DS-3959AM	99	142.3	11.8	57.1	0.0	30500
Thunder Seed	T6300 VT2P	100	137.8	12.1	57.6	0.0	29900
Hoegemeyer	6941 AM	99	137.7	12.6	58.3	0.0	30200
Dairyland Seed	DS-3900AM	99	132.2	12.1	58.2	0.0	29600
Legacy Seeds	LC474-20 TRE	97	130.8	12.0	58.1	0.0	29400
Farmer Check 1	LG5465	97	129.5	12.1	58.4	0.0	30700
Farmer Check 2	P0075AM	100	129.4	12.3	56.6	0.0	29100
Dairyland Seed	DS-3727AM	97	126.7	11.6	59.1	0.3	30200
Thunder Seed	T6902 VT2P	102	125.4	12.6	57.1	0.4	28300
Check	DKC48-95RIB	98	123.3	12.0	60.0	0.0	29000
Legacy Seeds	LC-4248 VT2P	100	122.8	12.2	58.3	0.3	28700
Thunder Seed	T6398 TRE	98	115.7	12.0	58.0	0.0	30100
Thunder Seed	T6999 VT2P	99	111.6	11.8	58.0	0.0	31700
Trial Average			130.7	12.1	57.8	0.1	29900
LSD (0.05)†			9.3	0.5	0.6	-	1300
C.V.‡			5	-	-	-	-

* Lodging percentage - stalks broken below the ear as a percentage of the final stand.
 † Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.
 ‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.



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Table 2. Glyphosate-resistant corn hybrid performance results (average of 4 replications - **Late Season Trial** (103 day maturity or more) at Mt. Vernon, SD.

Hybrid Information		Agronomic Performance					
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture	Test Wt. (lbs/bu)	Lodging (%)	Final Stand (plants/A)
Farmer Check 2	P0404AM	104	147.4	12.1	57.7	0.0	28700
Dairyland Seed	DS-4567Q	105	144.9	11.4	59.3	0.0	27800
Hoegemeyer	7523 Q	105	139.8	11.7	59.6	0.0	28500
Hoegemeyer	7680 AM	106	136.2	13.2	58.1	0.0	26800
Renk Seed	RK774VT2P	108	130.8	12.0	58.4	0.0	29000
Renk Seed	RK715SSTX	105	130.2	12.3	58.3	0.0	31000
Dairyland Seed	DS-4917AM	109	129.9	13.1	60.0	0.0	28200
Renk Seed	RK710DGVT2P	107	126.9	12.6	57.3	0.0	28400
Check	DKC48-95RIB	98	126.7	11.7	60.6	0.0	26900
Renk Seed	RK625DGVT2P	104	124.8	12.0	57.8	0.0	30600
Dairyland Seed	DS-4310AM	103	124.6	12.3	58.7	0.0	27000
Legacy Seeds	LC554-21 DGVT2P	104	124.5	11.8	57.8	0.0	29200
Farmer Check 1	CP4444VT2P	104	123.9	12.3	58.3	0.0	27700
Trial Average			131.6	12.2	58.6	0.0	28400
LSD (0.05)†			8.6	1.0	0.6	-	1200
C.V.‡			4.5	-	-	-	-

* Lodging percentage - stalks broken below the ear as a percentage of the final stand.
† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.
‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.